

Web Service

Contents

1	Programming Language Used	1
2	Instructions to run the program	1
3	Screen shots	2

1 Programming Language Used

My implementation is in Java. I have used Eclipse and Axis Web Service Framework for running the web service.

2 Instructions to run the program

1. The folders Calculator and CalculatorClient can be exported and directly opened in Eclipse
2. There is a client by the name CalculatorClient
3. To run this Tomcat v 8.0 is required
4. Start the Tomcat server
5. Run the application Calculator as a Server
6. Open <http://localhost:8080/CalculatorClient/sampleCalculatorProxy/TestClient.jsp?endpoint=http://localhost:7668/Calculator/services/Calculator>
7. Test the various methods - add, subtract, multiply, divide

8. The endpoint is `http://localhost:8080/CalculatorClient/sampleCalculatorProxy/TestClient.jsp?endpoint=http://localhost:7668/Calculator/services/Calculator`

3 Screen shots

Figure 1: Webservice for calculating the difference of two numbers

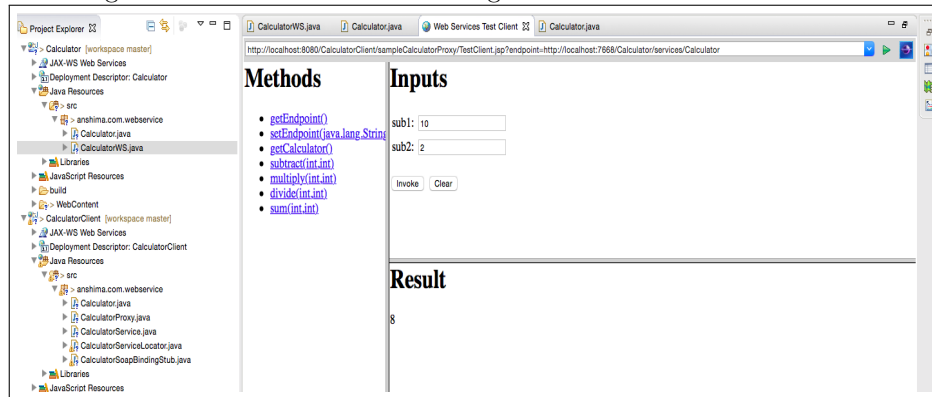


Figure 2: Webservice for calculating the addition of two numbers

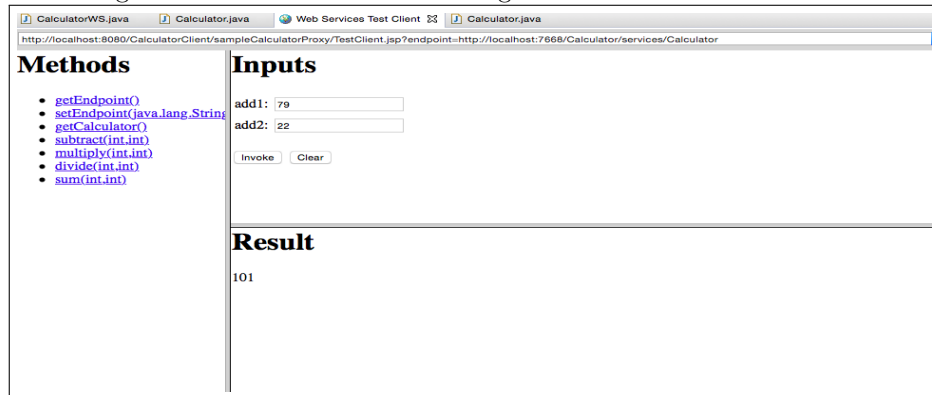


Figure 3: Webservice for calculating the product of two numbers

The screenshot shows a web browser window with the title "CalculatorWS.java". The address bar displays the URL: `http://localhost:8080/CalculatorClient/sampleCalculatorProxy/TestClient.jsp?endpoint=http://localhost:7668/Calculator/services/Calculator`. The page is divided into three main sections: "Methods", "Inputs", and "Result".

Methods: A list of methods is displayed on the left side:

- `getEndpoint()`
- `setEndpoint(java.lang.String)`
- `getCalculator()`
- `subtract(int,int)`
- `multiply(int,int)`
- `divide(int,int)`
- `sum(int,int)`

Inputs: On the right side, there are two input fields labeled "mul1:" and "mul2:". The "mul1:" field contains the value "100" and the "mul2:" field contains the value "24". Below these fields are two buttons: "Invoke" and "Clear".

Result: Below the input section, the word "Result" is displayed in bold. Underneath it, the value "2400" is shown, which is the product of 100 and 24.

Figure 4: Webservice for calculating the division of two numbers

The screenshot shows a web browser window with the title "CalculatorWS.java". The address bar displays the URL: `http://localhost:8080/CalculatorClient/sampleCalculatorProxy/TestClient.jsp?endpoint=http://localhost:7668/Calculator/services/Calculator`. The page is divided into three main sections: "Methods", "Inputs", and "Result".

Methods: A list of methods is displayed on the left side:

- `getEndpoint()`
- `setEndpoint(java.lang.String)`
- `getCalculator()`
- `subtract(int,int)`
- `multiply(int,int)`
- `divide(int,int)`
- `sum(int,int)`

Inputs: On the right side, there are two input fields labeled "div1:" and "div2:". The "div1:" field contains the value "100" and the "div2:" field contains the value "10". Below these fields are two buttons: "Invoke" and "Clear".

Result: Below the input section, the word "Result" is displayed in bold. Underneath it, the value "10.0" is shown, which is the result of dividing 100 by 10.